

-54-

CLAIMS:

What is claimed is:

- 5 1. A platform to support a cell, comprising:
a lower mainframe;
an upper mainframe including a plurality of recesses, each one of the plurality of
recesses configured to receive a cell; and
a dampener system disposed between the lower mainframe to the upper
10 mainframe.
2. The platform of claim 1, wherein the upper mainframe further comprises a fastener
structure positioned proximate each one of the recesses, wherein the cell is affixed to the
fastener structure.
- 15 3. The platform of claim 1, wherein the upper mainframe further comprises a rigidifying
plate and a main base plate, the main base plate comprising the plurality of recesses, the
rigidifying plate comprising at least one aperture, the rigidifying plate attached to the
main base plate so the aperture is aligned with the recesses.
- 20 4. The platform of claim 1, wherein the cell is a process cell.
5. The platform of claim 1, wherein the cell is a metrology cell.
- 25 6. The platform of claim 1, wherein the cell is a SRD cell.
7. The platform of claim 1, wherein the dampener system comprises a plurality of
axially extending support members that extend between the lower mainframe and the
upper mainframe.

-55-

Am 4
8. The platform of claim 7, wherein each axially extending support member comprises:
a hollow tubular member;
a piston slidably disposed within the hollow tubular member; and
5 a dampening element contained within the hollow tubular member, wherein the piston is biased against the dampening element.

sub
9. The platform of claim 8, wherein the dampening element is sand.

10 10. The platform of claim 8, wherein the dampening element acts as a vibration dampener.

pub
Att.
11. A platform to support a cell, comprising:
a lower mainframe;
15 an upper mainframe including a plurality of recesses, each one of the plurality of recesses configured to receive a cell; and
a dampener system connecting the lower mainframe to the upper mainframe.
wherein the dampener system comprises a plurality of axially extending support members that extend between the lower mainframe and the upper mainframe, each
20 axially extending support member comprises:
a hollow tubular member,
a piston slidably disposed within the hollow tubular member, and
a dampening element contained within the hollow tubular member,
wherein the piston is biased against the dampening element.

25
sub
12. The platform of claim 11, wherein the upper mainframe further comprises a fastener structure positioned proximate each one of the recesses, wherein the cell is affixed to the fastener structure.

-56-

sub 1 13. The platform of claim 11, wherein the upper mainframe further comprises a rigidifying plate and a main base plate, the main base plate comprising the plurality of recesses, the rigidifying plate comprising at least one aperture, the rigidifying plate attached to the main base plate so the aperture is aligned with the recesses.

5

14. The platform of claim 11, wherein the cell is a process cell.

15. The platform of claim 11, wherein the cell is a metrology cell.

10 16. The platform of claim 11, wherein the cell is a SRD cell.

pub 13 17. A platform to support a cell, comprising:
a lower mainframe;
an upper mainframe including a plurality of recesses, each one of the plurality of
15 recesses configured to receive a cell; and
dampener means disposed between the lower mainframe to the upper mainframe
to support the upper mainframe relative to the lower mainframe.

18. The platform of claim 17, wherein the upper mainframe further comprises a fastener
20 structure positioned proximate each one of the recesses, wherein the cell is affixed to the fastener structure.

19. The platform of claim 17, wherein the upper mainframe further comprises a rigidifying plate and a main base plate, the main base plate comprising the plurality of
25 recesses, the rigidifying plate comprising at least one aperture, the rigidifying plate attached to the main base plate so the aperture is aligned with the recesses.

20. The platform of claim 17, wherein the dampener means comprises a dampening element, the dampening element is sand.

aspl 14